

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6900370 B2
APPLICATION NO. : 09/749,601
ISSUE DATE : 05/31/05
INVENTOR(S) : NICOLAIDES, NICHOLAS C.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The drawing sheet, consisting of Figs. 1, should be deleted to be replaced with the drawing sheet, consisting of Figs. 1A, 1B, 1C, as shown on the attached pages.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

50. 09/749,601

PATENT NO.: 6,900,370 B2

^{Issue}
DATED: May 31, 2005

INVENTOR(S): Nicholas C. NICOLAIDES et al.

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 2, Line 60:

Please delete "SEQ ID NO: 14" and insert -- SEQ ID NO: 12-- .

In Column 2, Line 63:

Please delete "SEQ ID NO: 16" and insert -- SEQ ID NO: 14-- .

In Column 2, Line 67:

Please delete "SEQ ID NO: 14" and insert -- SEQ ID NO: 12-- .

In Column 3, Line 3:

Please delete "SEQ ID NO: 16" and insert -- SEQ ID NO: 14-- .

In Column 3, Line 16:

Please delete "Fig. 1" and insert --Fig 1A, Fig 1B and Fig 1C.--.

~~NO In the Drawings, Sheet 1 of 13~~

~~Please delete Fig. 1 and insert Fig. 1A, Fig 1B and Fig 1C (seen below):~~

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U.S. PAT. NO. —

6,900,370

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□ —

humPMS2 (1077) GATAGGAATCTTTGATAGTGATGTCACACGCTAAATGTCAGTCAGCAGCCACTGCTGGAIGTTGAAGGT
 AtPMS2 (993) GAG-GGAAGGCTCTGA-----A-CGAGATATATTCG---T-----CCAGTAAAGCGCTTTATA---
 Consensus (1121) GA GGAA GT TGA A C AG TA AT C T CCA T TG T TT A
 1191 1260
 humPMS2 (1147) AACTTAATAAAATGTCATGAGCGGATTGGAAAAGCCCATGGTAGAAAAGCAGGATCAATCCCTTCAT
 AtPMS2 (1040) ---TTGTTAATAGGTTCCAGGAGCAATTTCGAGCGAACCC-----AGATAAG---GCTGGAGTTTCTCTCT
 Consensus (1191) T T AA A G G G G ATT GGA A CC AGA AAG G T A C TC T
 1261 1330
 humPMS2 (1217) TAAGGACTGCGAGAAGAAAAAAGACGTGTCATTTCAGACTCCGAGAGCCTTTCTCTCTCCTCACAC
 AtPMS2 (1097) TTC-----AGAAGAAATCAAA-----TCCTTTGTGAGAA-CGGATAG-----TTCTGGATGTCAGTT
 Consensus (1261) T AGAAGAAA AAA TC TT CAGA G GA AG TTCT GTCA
 1331 1400
 humPMS2 (1287) AACAGAGAACCAAGCCTCACAGCCCAAAGACTCCAGAACCAAGAGAGGCCCTCTAGGACAGAAAAAGGGGT
 AtPMS2 (1148) CTAA---AACCAAGCT---AGGGGAGCTATGAGAAAGAAATCCATCCCTTAAGGAGGTTGAAATTCA
 Consensus (1331) A AACAAG CT AG AA T AGAA AA A A CC T GGA AA G
 1401 1470
 humPMS2 (1357) ATGCTGTCTTCTGCACTTCAGCTGCCATCTCTGACAAAGGCGTCCCTGAGACCTCAGAAAGAGGAGTGA
 AtPMS2 (1212) TAATAGTTCCGCAATGGAGAAGTTTAAGTTTGAGATCAAGGCATG-TGGACGA-AGAAAGGGGAG---
 Consensus (1401) GT C A AG T T T GA AAGGC T TG GAC AGAAAG GG AG
 1471 1540
 humPMS2 (1427) GTTCAGTCAACGGACCAGTGCACCTACGACAGACAGCGGAGGTCCAGAGGACTGGGGCCACGGCAGCAGC
 AtPMS2 (1277) GTTCT---TTAT---CAGT---CCAT---GATGTAACTCCCTTGACAG-ACACTAGCCAAAGGTTTTCG
 Consensus (1471) GTTC T A CAGT CC GA A C A T GA AAG AC C GCA G C
 1541 1610
 humPMS2 (1497) TTCCTGGATTCTGAGGGGTTTCAGCATCCAGACACGGGAGTCACTCAGCAGCGAGTATGCGGCCAGC
 AtPMS2 (1334) CTCAGTTAATGTGACTG-----AGA-----AGTTACTGATGCA---AGTA---TAG
 Consensus (1541) TC GT A T TGA G AGA AGT ACTG GCA AGTA A
 1611 1680
 humPMS2 (1567) TCCCAAGGGGACAGGGGCTCGCAGGAACATCTGGACTCTCAGGAGAAAGCGCTGAAACTGACGACTCTT
 AtPMS2 (1376) AGTTGAG---CAGCCGCTCT---A-GCTTTGCCAGTCA-----ACTT---TGAATACTTTT
 Consensus (1611) C AG CAG GCTC A T TG C TCA CT TGA ACT TT
 1681 1750
 humPMS2 (1637) TTTCAGATGTGACTGCCATTCAAAACCAGGAAGATTCGGGATGTAAATTTTCGAGTTTTCCTCAGCCAAC
 AtPMS2 (1423) GTTACCATGCG-----AAA-----AAGAAAC---ATGAAA-----CATAAGC---AC
 Consensus (1681) TT ATG G AAA AAGA A C ATG AAA C T AGC AC
 1751 1820
 humPMS2 (1707) TCACTCCGAACCCCAACACAAAGCGTTTAAAGAAAGAGAAATTCCTTCCAGTTCTGACATTTGCTCA
 AtPMS2 (1461) CATCTCTCTG---AAACACCT---GTCCCTCAGAAACCA-AACTTCT---AGTTAT---GCTGTGAGAG
 Consensus (1751) A CTC C AAACAC GT T A AAA A AA TTCT AGTT T C T TG A
 1821 1890
 humPMS2 (1777) AAGTTAGTAAATACTCAGGACATGTCAGCCCTCTCAGGTTGATGTAGCTGTGAAAATTAATAAGAAAGTTG
 AtPMS2 (1517) AA---AGCAAAATTTGAAGTTCTGTG-----CTTAGCTTCA---AGGTGT---CTCGT---GGAAGCGC
 Consensus (1821) AA AG AAAT AG C TG CT AG TT A AG TGT T T G AAG G
 1891 1960
 humPMS2 (1847) TGCCCTGGGACTTTTCATGATTTCTTAGCTAAACGAATAAAACAGTTACATCATGAAGACAGCAAAAG
 AtPMS2 (1568) ATCAACTTGA---TGATATG-G---TCATCTCAAG---GAAGATATGACCAAGG---AAAG
 Consensus (1891) C CT GA T TATG G T A CT AA G G AG TA CA AAGC AAAG
 1961 2030
 humPMS2 (1917) TGAAGGGGAACAGAATTACAGGAGTTTAGCGCAAAAGATTGTCCTGGAGAAATCAAGCAGCCGAGAT
 AtPMS2 (1620) AGATTCTGAAC-----AGGCAATC---G-----GATTTCTCCTGGAACA---CAAGCTCATATGTT
 Consensus (1961) GA GAAC AGG A T G GATTT TCCTGGA A CAAGC G A G T
 2031 2100
 humPMS2 (1987) GAACTAAGAAAAGAGATAGTAAGAGATGTTTGAGAAATGGAATCATTTGGTCAGTTTAACTTGGGAT
 AtPMS2 (1672) GAA---AGACATGAGAGA-GTA---C-----TCGGGCAATTCATCTTGGGT
 Consensus (2031) GAA AGA A GAGA A GTA C T GG CA TT AA CT GG T
 2101 2170
 humPMS2 (2057) TTATAATAACCAAACTGAATGAGGATATCTTCATAGTGGACAGCATGCCAGGACGAGAAAGTAACTT
 AtPMS2 (1712) TCATCATTTGCAAAATTTGGAGCGAGATCTGTTTCATTGTGGATCAGCATGCCAGTGTAGAGAAATCACTT
 Consensus (2101) T AT AT C AAA TG A GAT T TCCAT GTGGA CAGCATGC C GA GAGAA T AACTT
 2171 2240
 humPMS2 (2127) CGAG-ATGCTGCAGCAGCACACCGTGTCTCCAGGGGCAGAGGCTCATAGCA-CCTCAGACTCTCAACTTAA
 AtPMS2 (1782) CGAACATTTAGCAAGGTCA-ACGTCTCTGAACCAAGCA-ACCCTTACTCCAGCCTTTGAAGTTGGAGCTCT
 Consensus (2171) CGA AT GCA CA AC GT CT A GCA A CT A CA CCT GA T A T
 2241 2310
 humPMS2 (2195) CTGCTGTTAATGAAGCTGTTCTCATAGAAAATCTGGAAATATTAGAAAGCAATGGCTTTGATTTTGTAT
 AtPMS2 (1850) CTCCAGAGAGAGAAGTAAGTGTCTTAATGCATGGATATATCAGGCAAAATGGCTTTCTCTCAGAGGA
 Consensus (2241) CT C G A GAAG T TG TA A TGGA AT T AG A AATGGCTTT T T G
 2311 2380

Figure 1B

humPMS2 (2265) CGATGAAATGCTCCAGTCACTGAAAGGGCT--AACTGATTTCCTTGCCAACTAGTAAAACTGGACCT
 AtPMS2 (1920) GAATCCAACTGCTCC--TCCCGAAACACTTTAGACTACGAGCCATTCCCTTAGCAAGATATCACCT
 Consensus (2311) AT AA TGCTCC TC C GAAA CT A ACT CC T CC TAG AA AA ACCT
 2381 2450

humPMS2 (2333) TCGGACCCAGGACGTCGATGAATGATCTTCCTGCTGAGCGACAGCCCTGGGG-----TCATGTGCGG
 AtPMS2 (1988) TTGGAGTCGAAGATCTTAAAGACCTGATCTCAACTCTAGGAGATAACCAATGGGGAATGTTCGGTTGGTAG
 Consensus (2381) T GGA C A GA T A GA CTGATCT A CT G GA A CC TGGGG TC TGC G
 2451 2520

humPMS2 (2398) -----CCTTCGAGTCAAGCAGATGTTTCCCTCCAGAGCC
 AtPMS2 (2058) TAGCTACAAAACCAGCAAAACAGATTCGATTGTCCATCACGAGTCGCTGCAATCTAGGATCCGAGCA
 Consensus (2451) CC TC CGAGTC ATG T GC TCC GAGC
 2521 259

humPMS2 (2434) TGCCTGAAGTCGGTGATGATTGGGACTTGGCTCTTACACCAAGCGAGATGAAGAACTGATCACCCACATGG
 AtPMS2 (2128) TGCAGATCATCTGTGATGATCGGAGATCCACTCGAAACAAACGAAATGCAGAAAGATAGTAGAACACATGG
 Consensus (2521) TGC G TC GTGATGAT GG T C CT A A AA CGA ATG AGAA T T CAC TGG
 2591 2660

humPMS2 (2504) GGGAGATGGACCCACCCCTGGAACTGTCCCATGGAGGCCAACCATGAGACACATCCCAACCTGGGTGT
 AtPMS2 (2198) CAGATCTCGAATCTCCTTGGAAATGCCACACGGACCGCAACAATCCGTCTCTTTGTGGACTTGACAA-
 Consensus (2591) GA T GA CC TGGAA TG CC CA GGA G CCAAC ATG G CA T G AC TG
 2661 2730

humPMS2 (2574) CATTTCTCAGAAC-----
 AtPMS2 (2267) CTTTACTCACATTACCTGATGACGACAATGTCAATGATGATGATGATGATGATGCAACCATCTCATTTGGC
 Consensus (2661) C TT CTCA A
 2731

humPMS2 (2587) ----
 AtPMS2 (2337) ATGA
 Consensus (2731)

Figure 1C